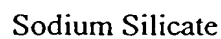


Fig. 1

↓



↓


$$\begin{array}{ccccccc} & \text{OH} & & & \text{OH} & & \\ & | & & & | & & \\ \text{OH} - & \text{S} & - & \text{O} & - & \text{S} & - \text{OH} \\ & | & & & | & & \\ & \text{OH} & & & \text{O} & & \end{array}$$
$$\begin{array}{c} | \\ \text{O} \\ | \\ \text{OH} - \text{S} - \text{OH} \\ | \\ \text{OH} \end{array}$$

P:\Brett\32831.14.Fig2.wpd

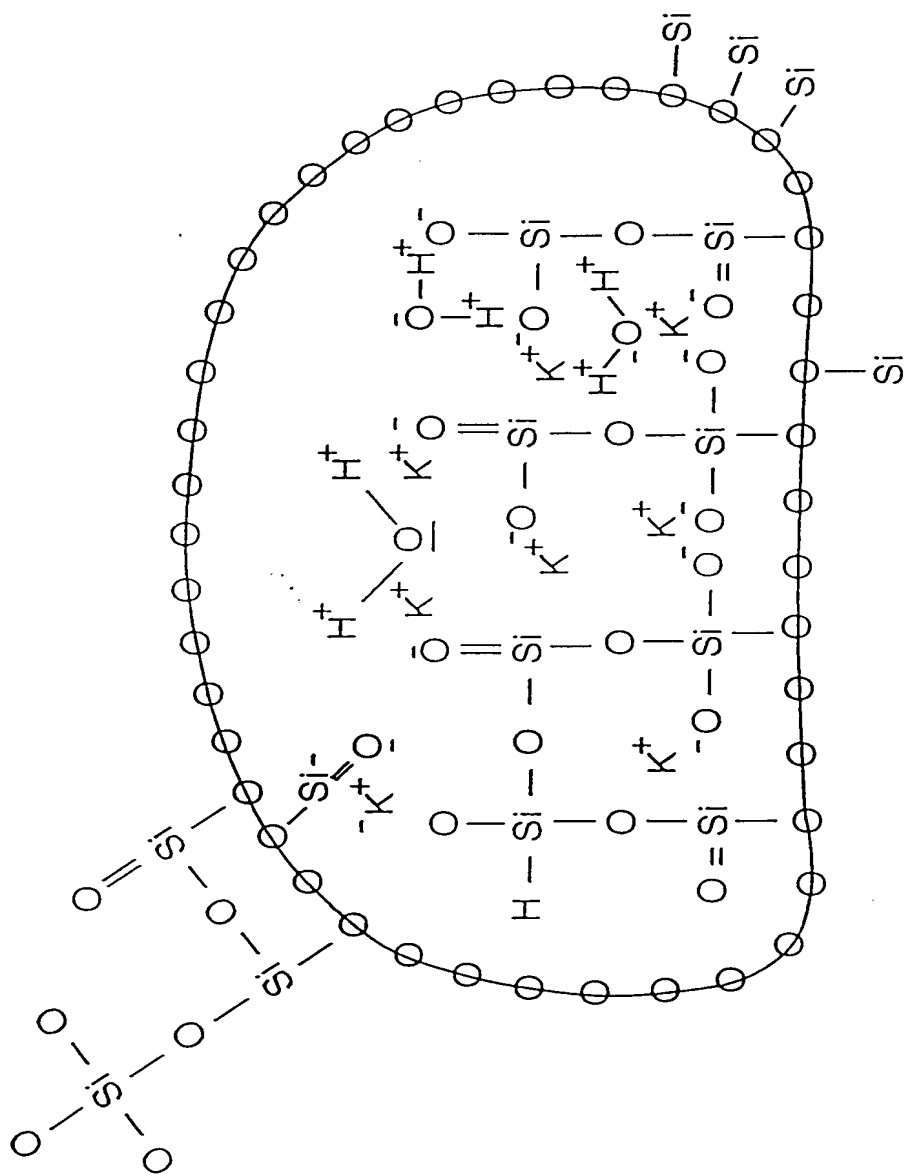


FIG. 3

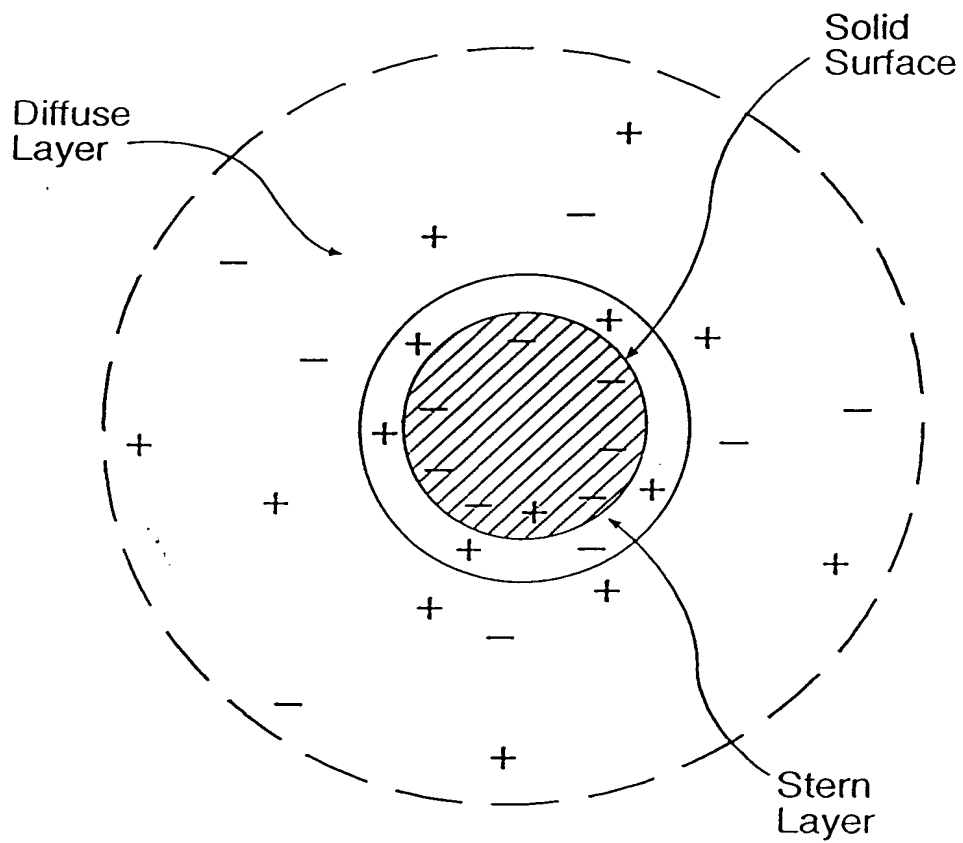


FIG. 4

000001 000000

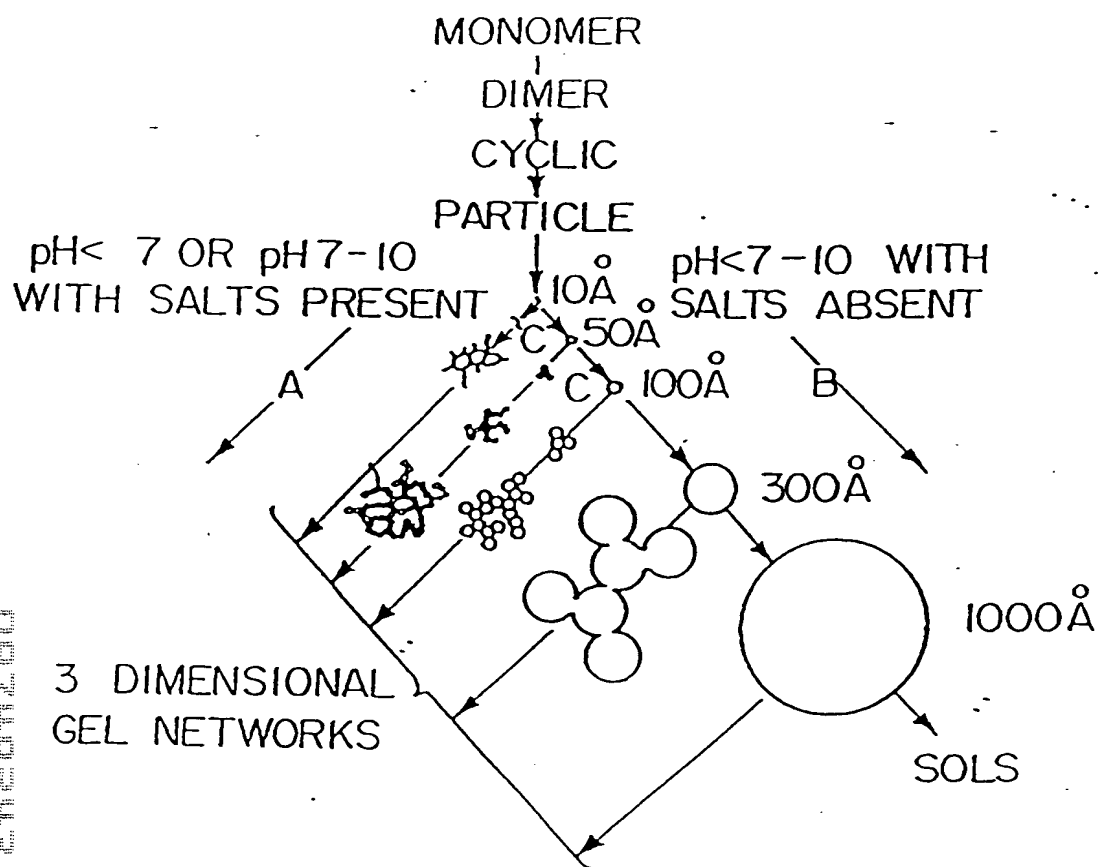


FIG. 5

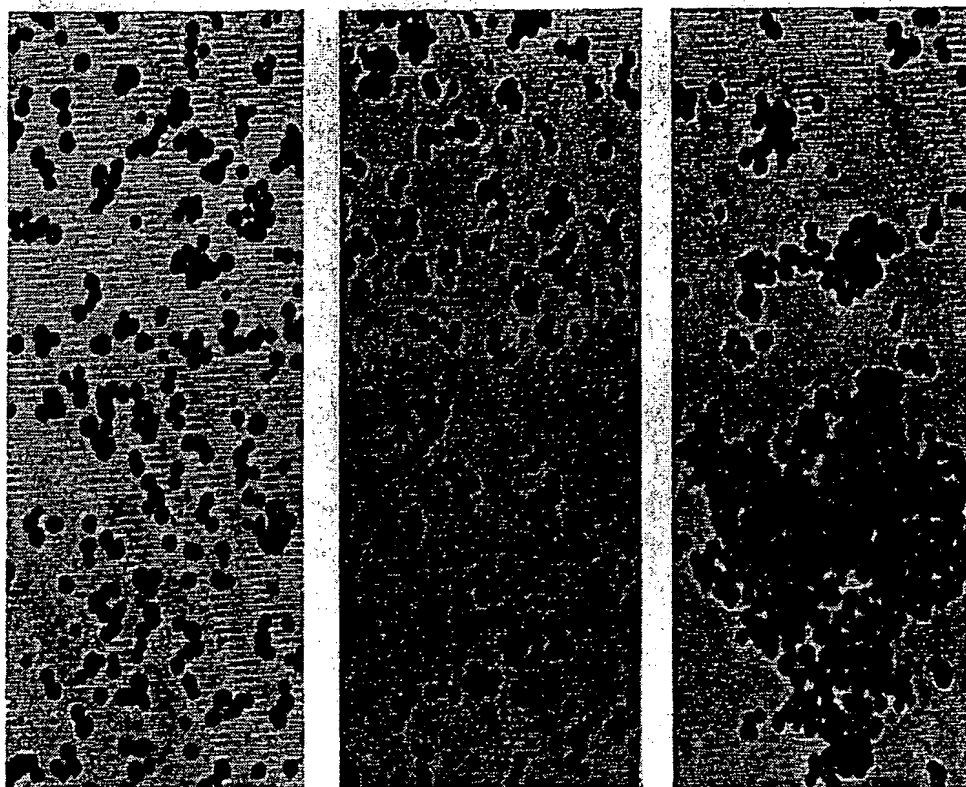


FIG. 26.—Electron micrographs showing stages of aggregation of 35 millimicron silica particles: *left*, colloidal aggregates; *center*, aggregates approaching colloidal size; *right*, supercolloidal aggregates or precipitate.

FIG. 6

bound water

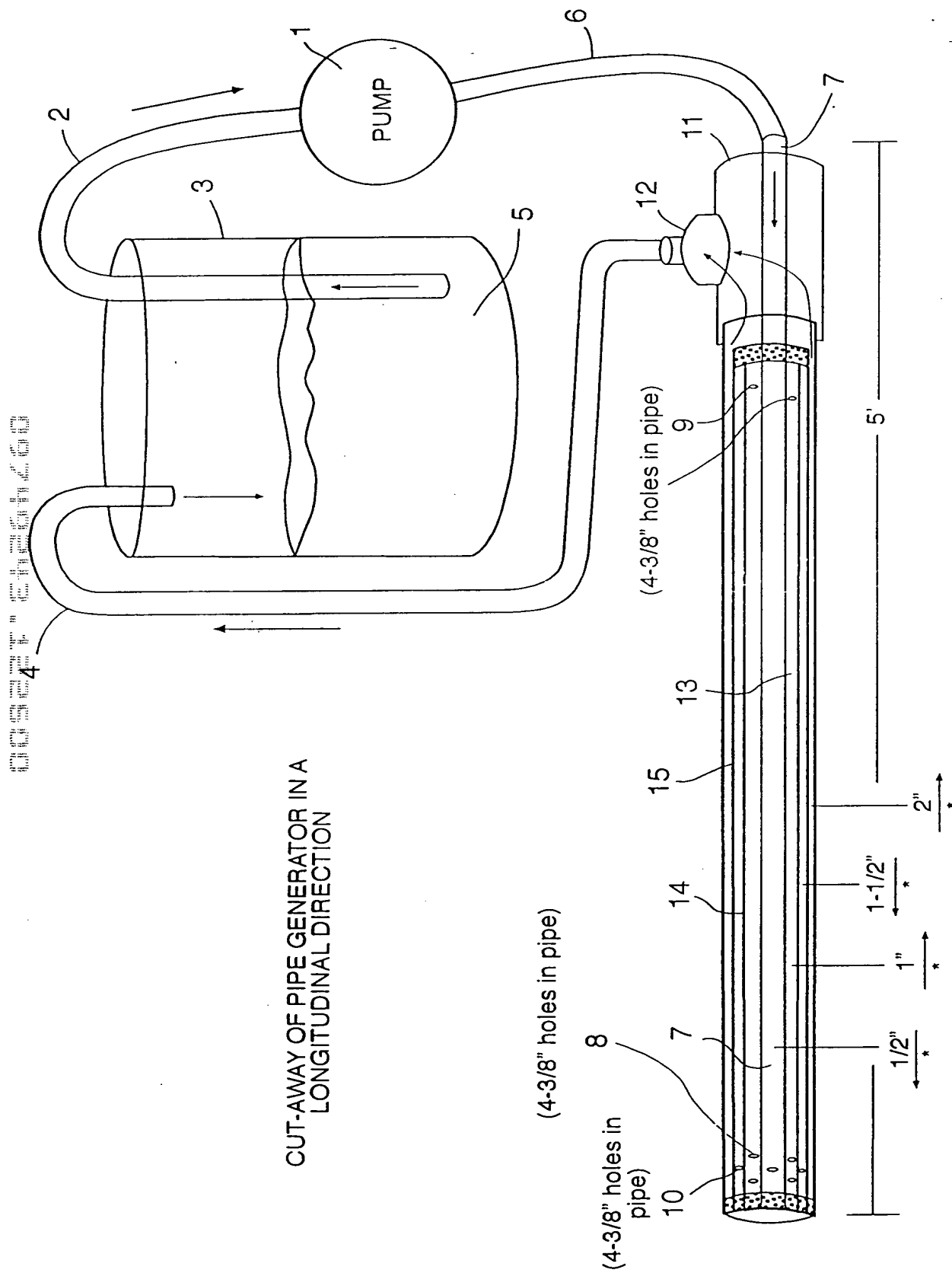
003227 21201200

colloid particle

6a.

Electron photomicrograph of the collaid of the  
invention, 5a.





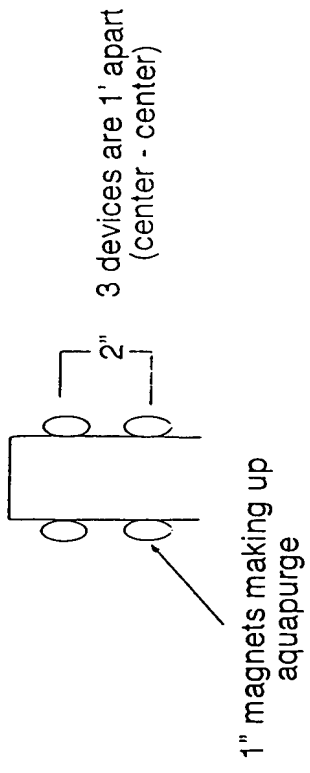
CUT-AWAY OF PIPE GENERATOR IN A  
LONGITUDINAL DIRECTION

FIG. 7



00327" 0126460

SECTION OF GENERATOR



(A)  
CUT-AWAY OF PIPE GENERATOR IN A LONGITUDINAL DIRECTION

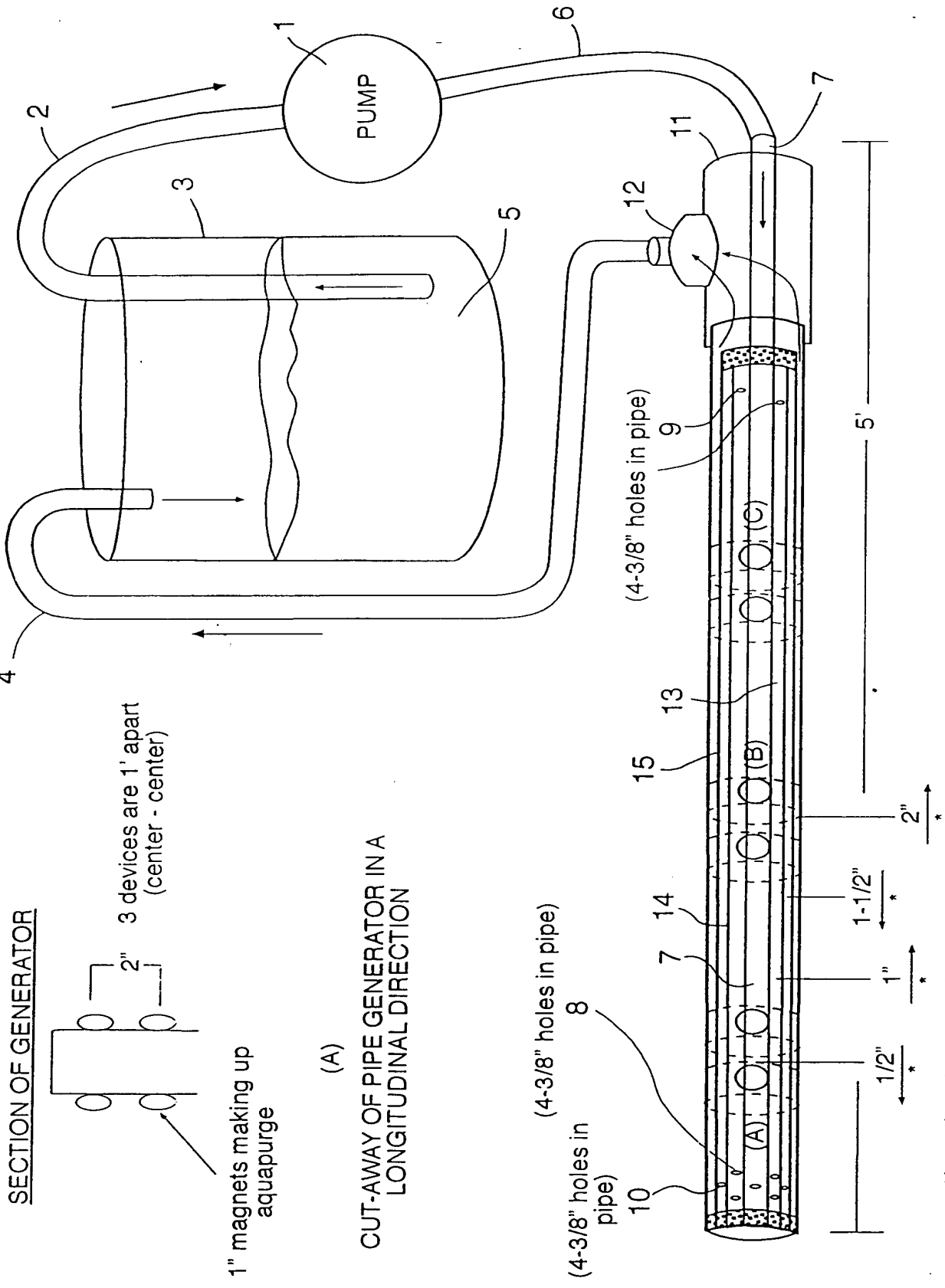
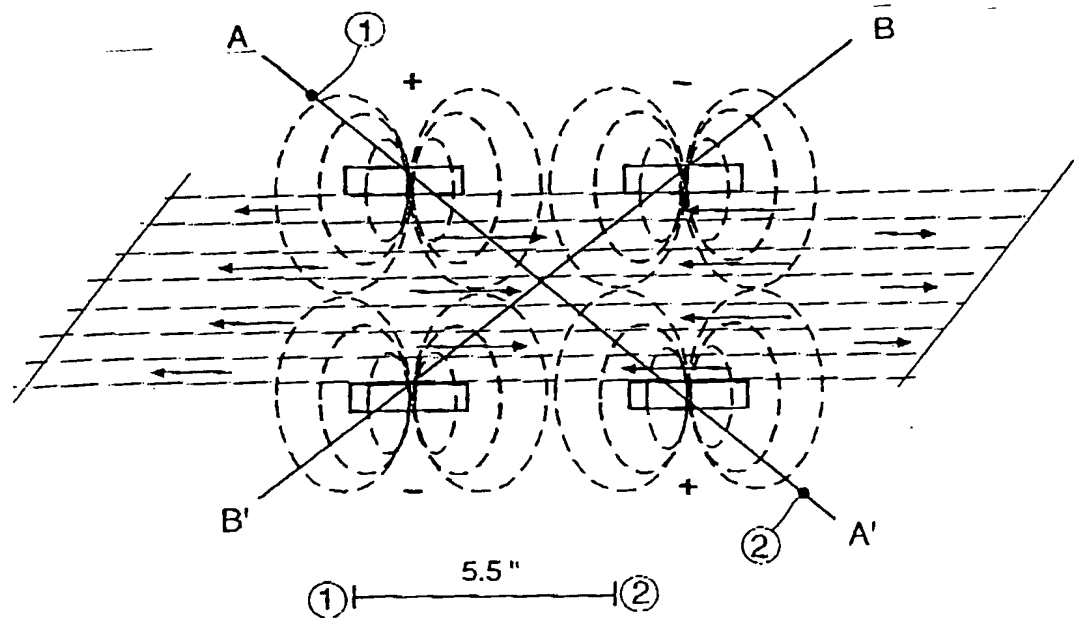


FIG. 8

Cross sectional view of counter current generator of the invention with lines A-A' and B-B' noted for measurement purposes.



Plot of Gradients in "z" axis

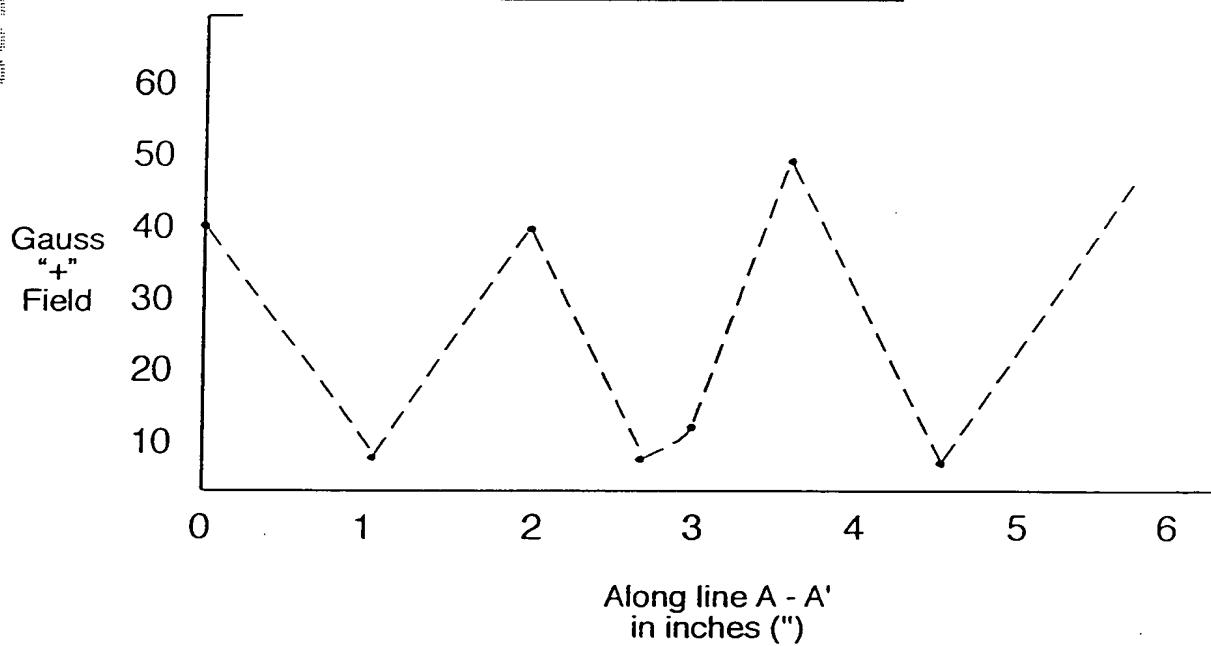


FIG. 9

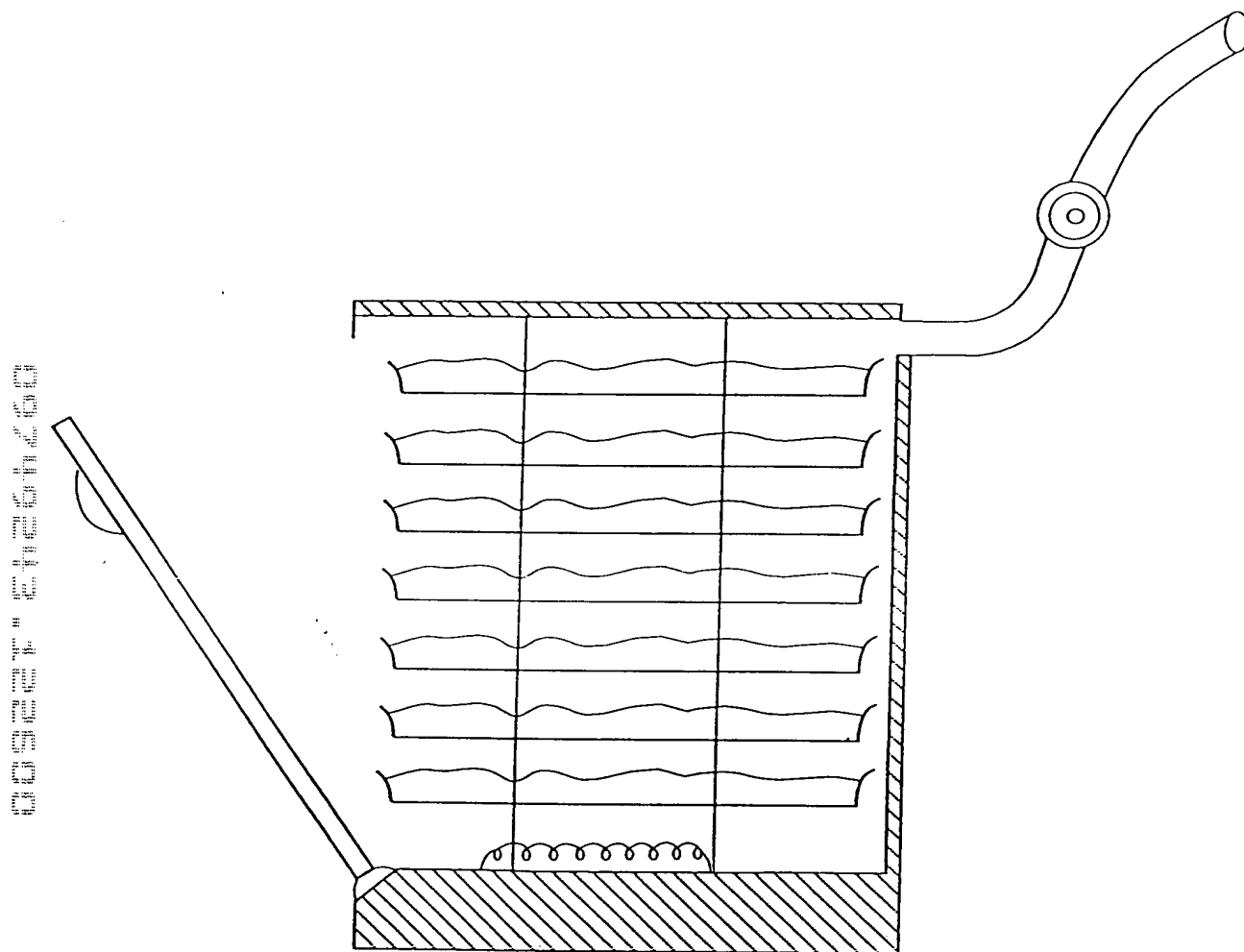


FIG. 10

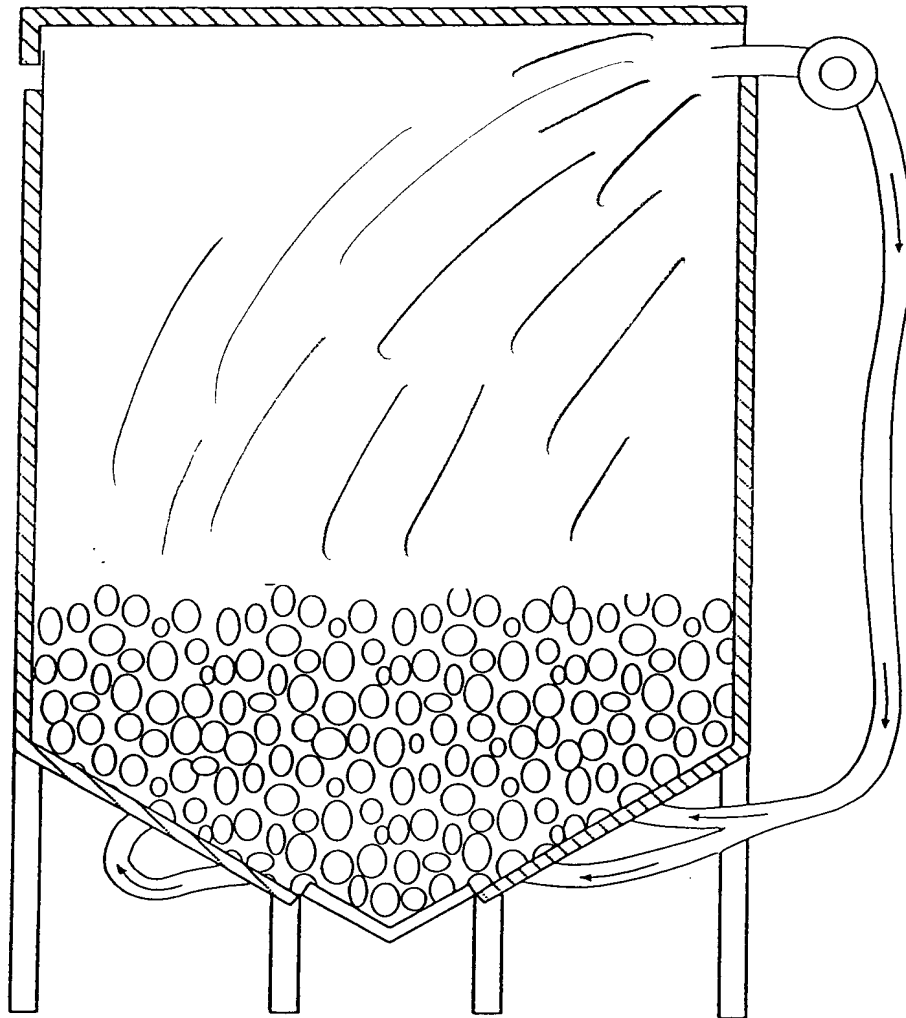


FIG. 11

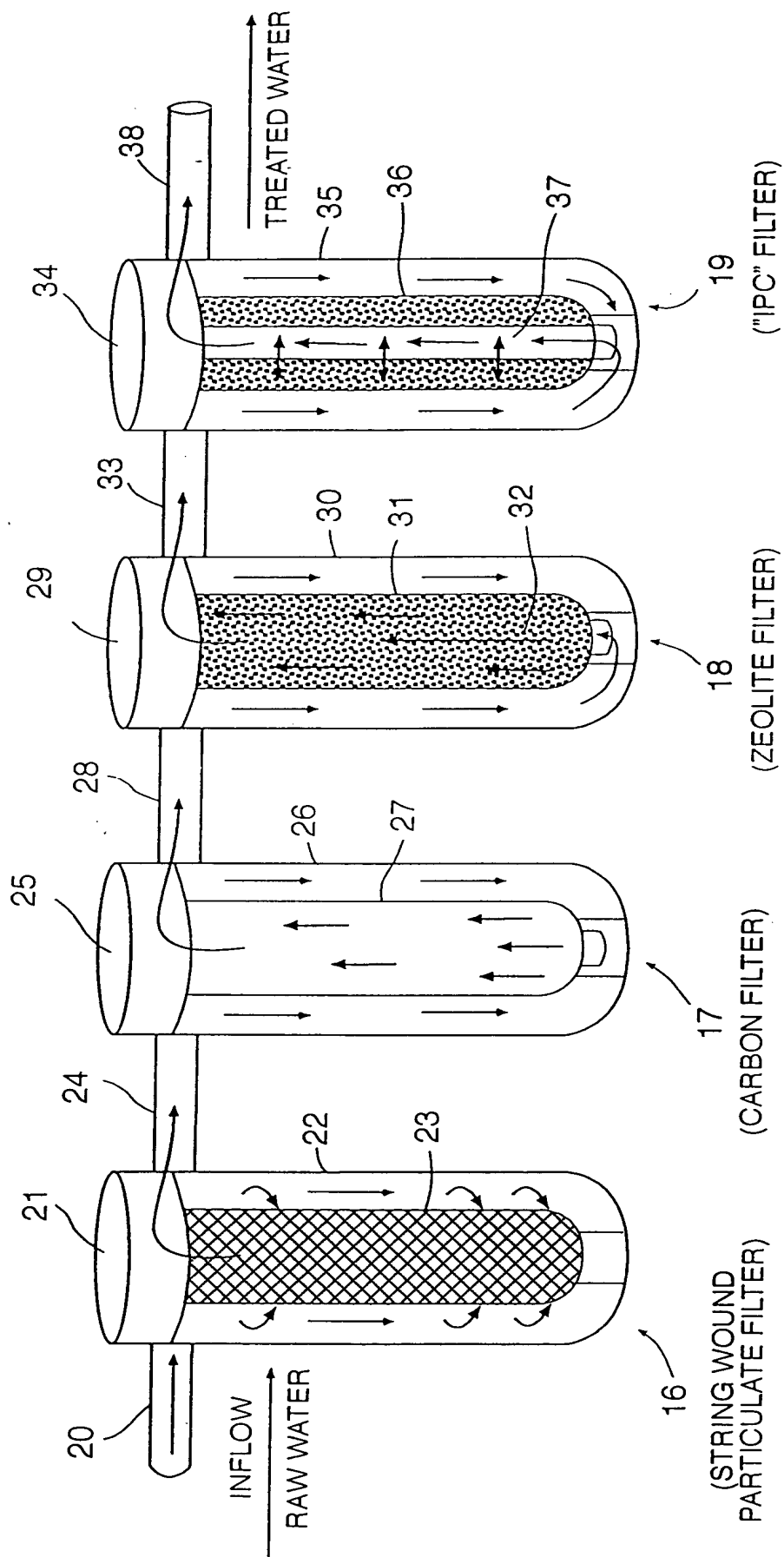


FIG. 12

U.S. Pat. 4,166,400

HOME WATER SOFTENER,  
WITH AUTOMATIC  
CONTROLLER FOR  
REGENERATION AND SERVICE

IPC CONVERSION

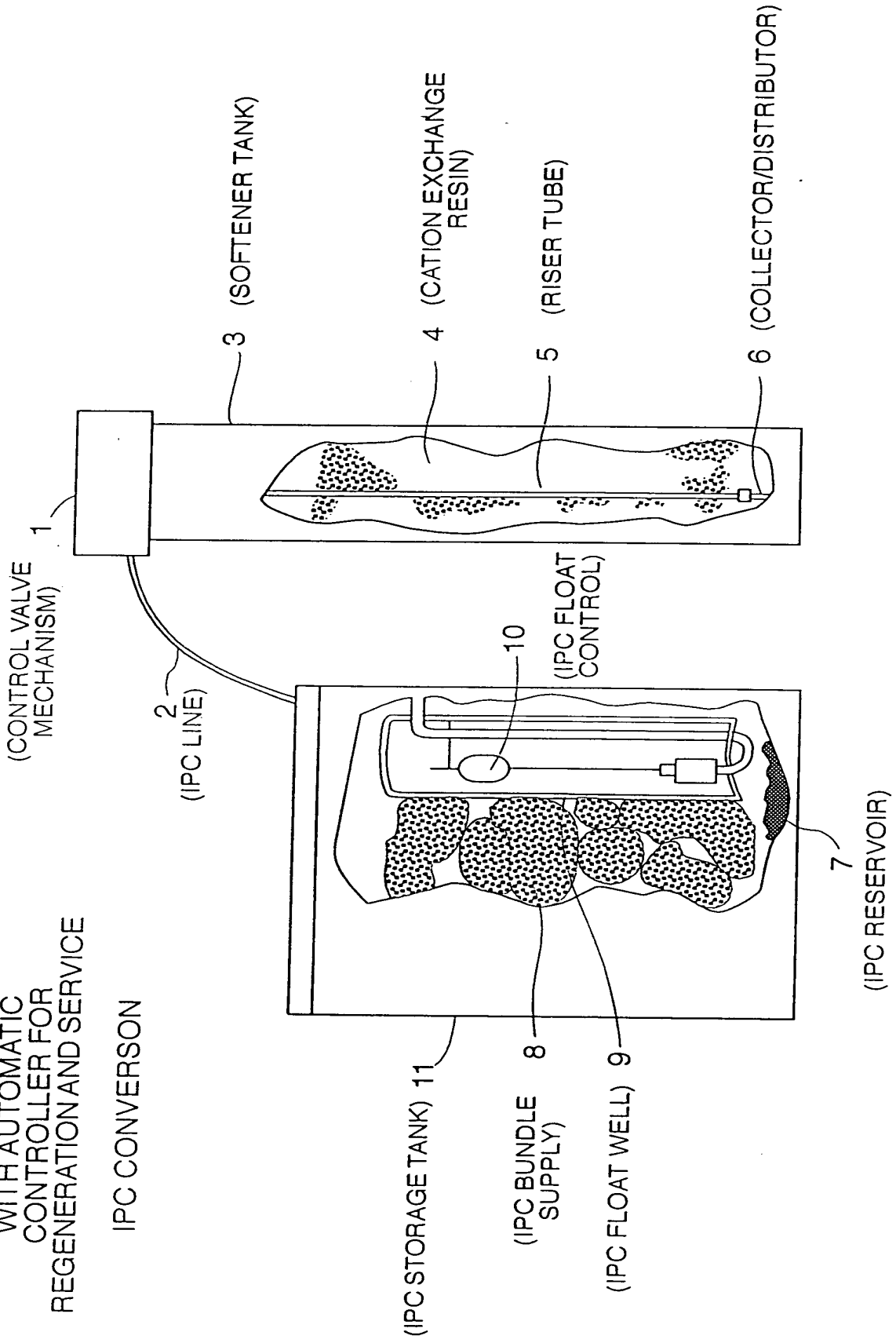


FIG. 14

FIG. 15 is a schematic diagram of a water treatment system.

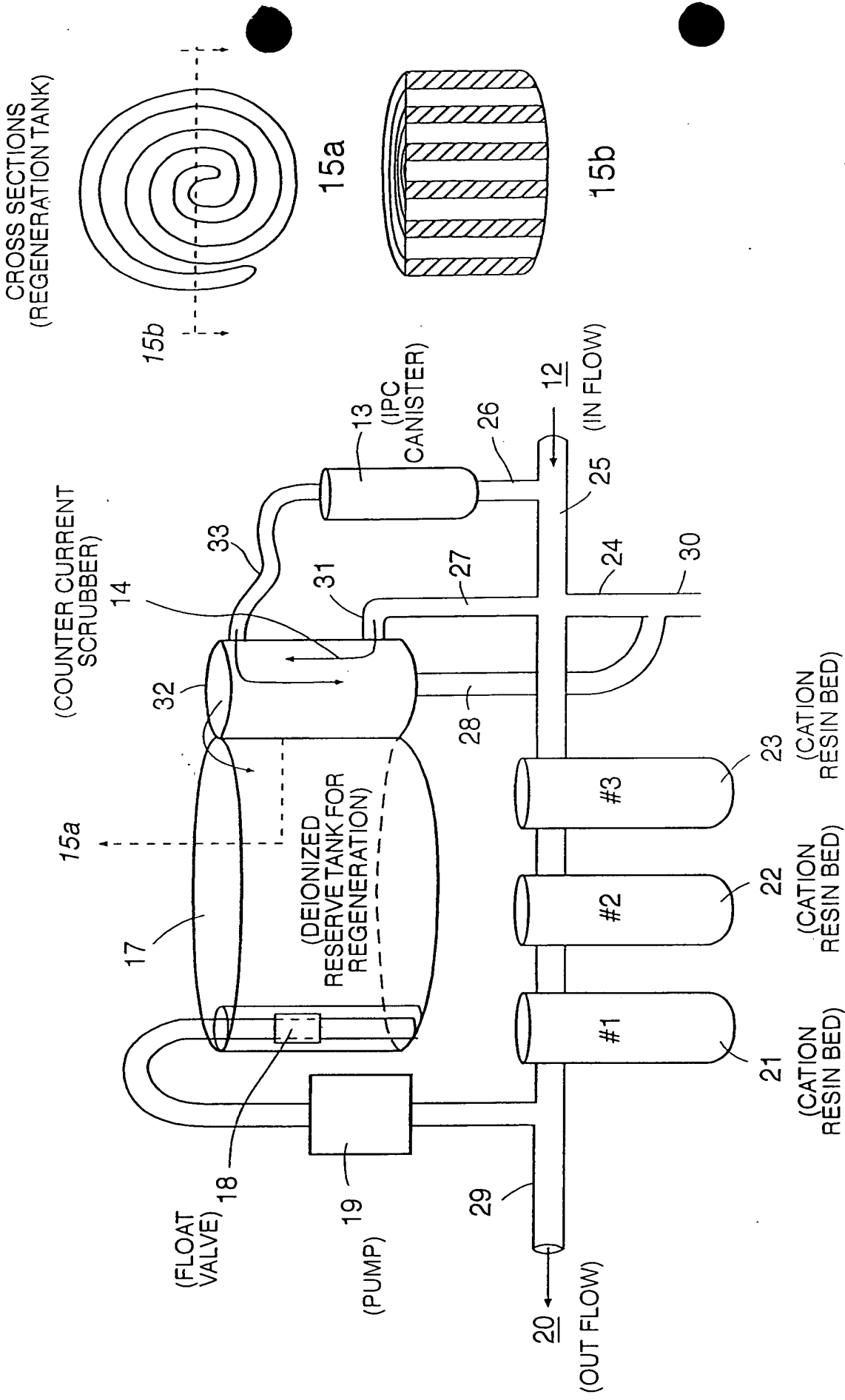


FIG. 15

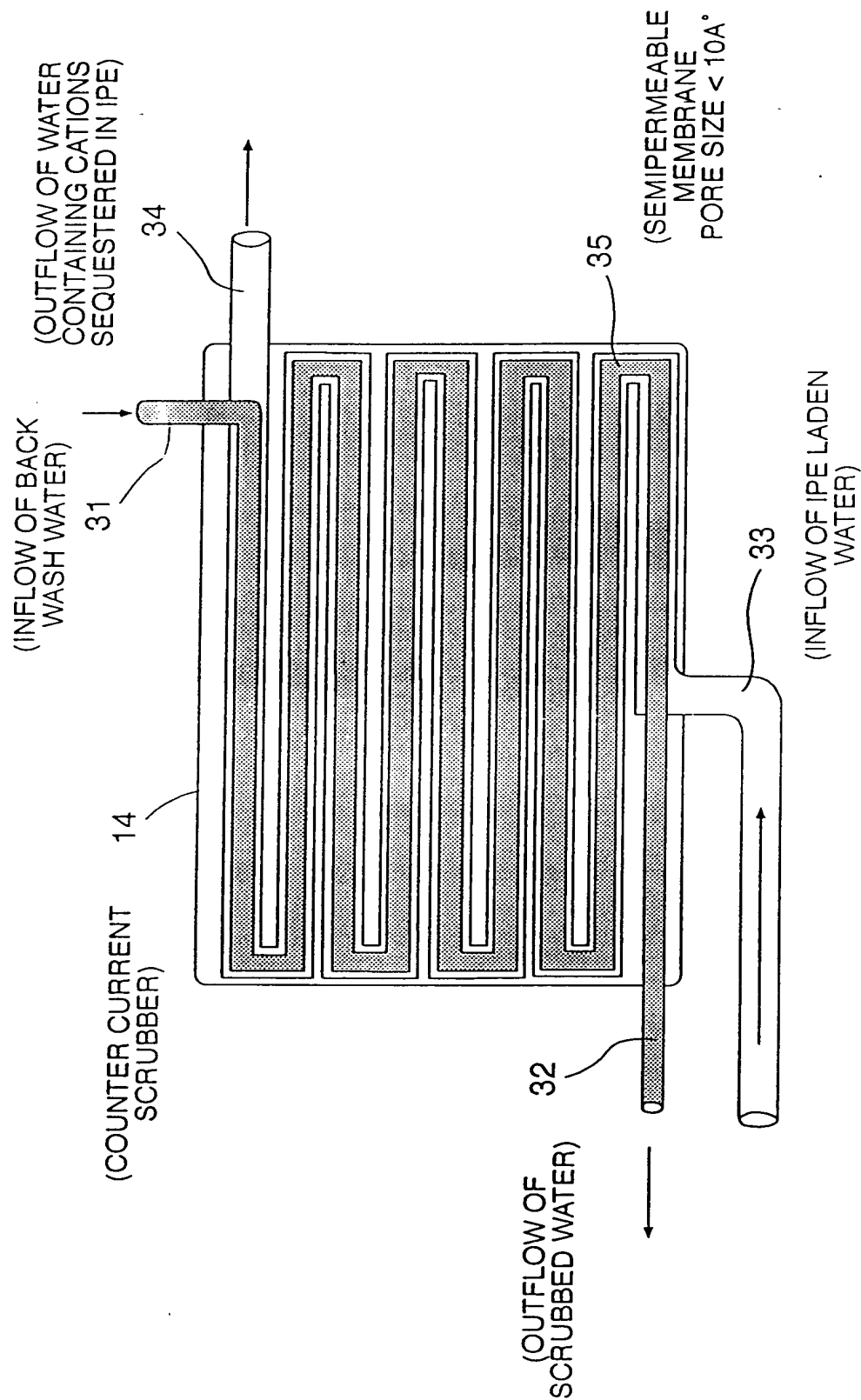


FIG. 16



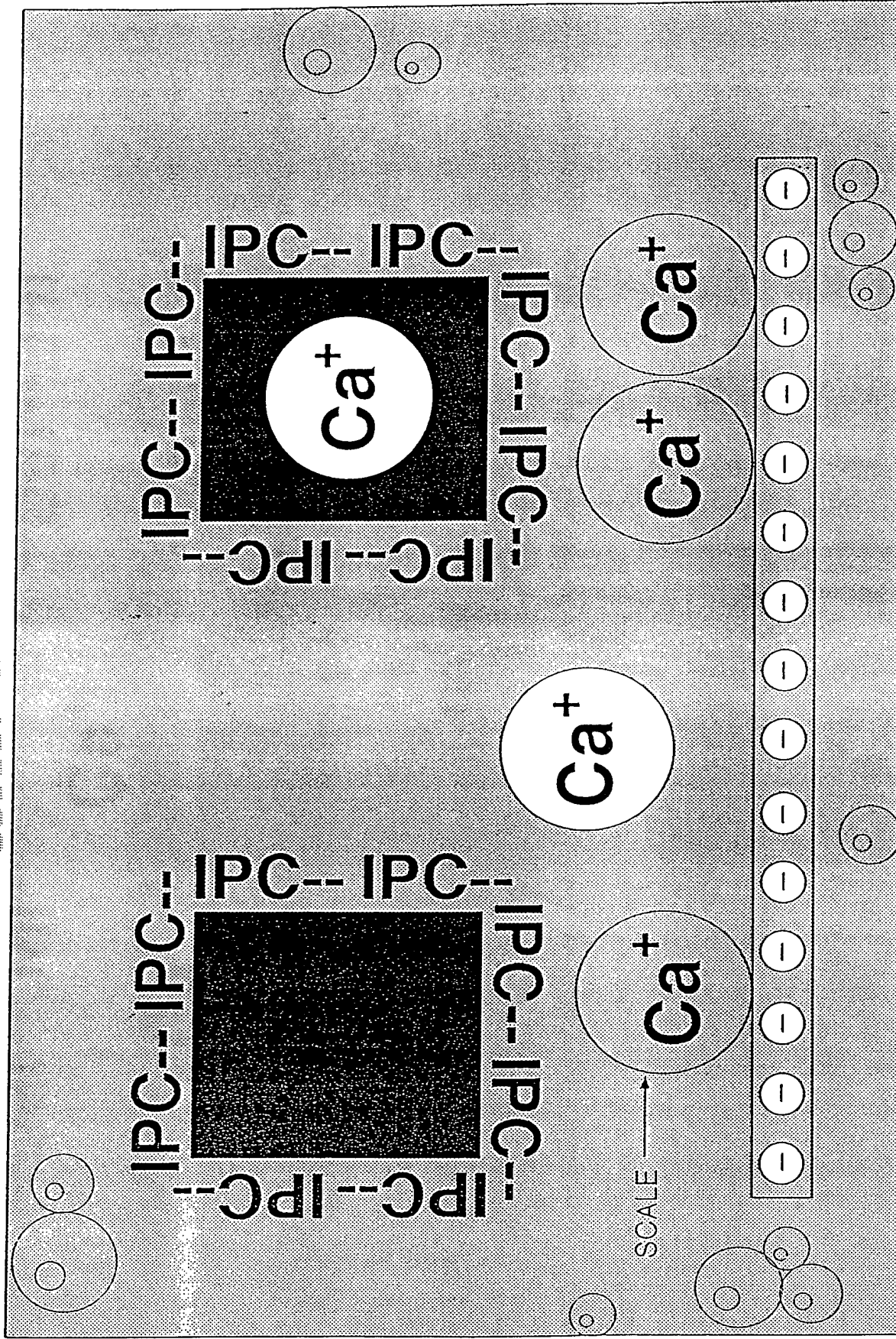


FIG. 17

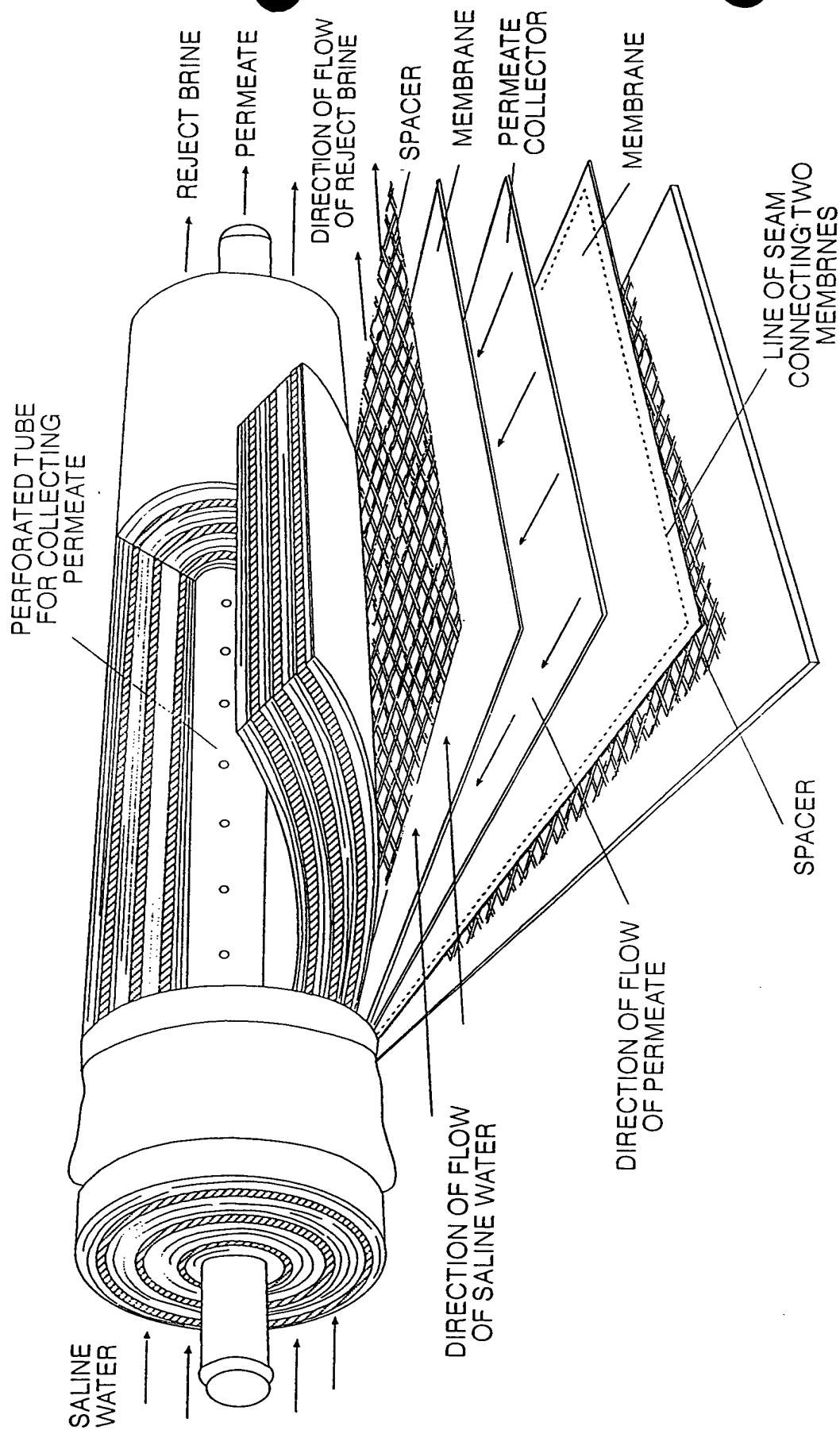


FIG. 18

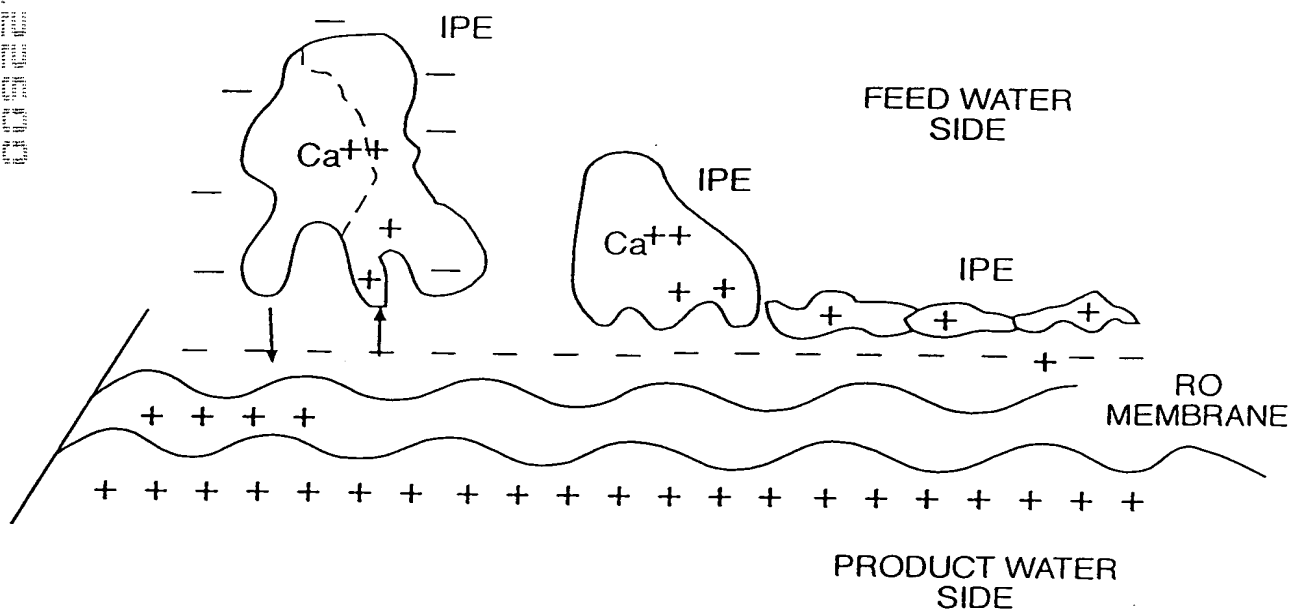
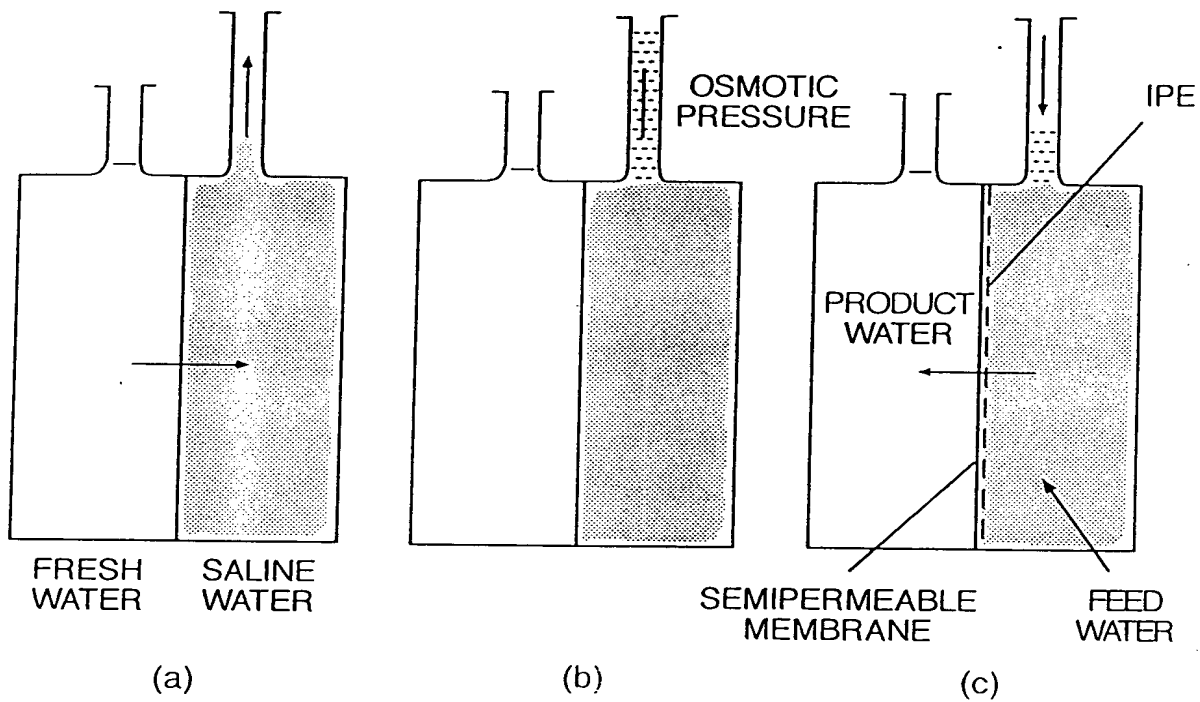


FIG. 19